Matt Kistler
Shannon Sankar

Laser Audio Surveillance System (LASS)

Our system is designed to detect the vibrations of sound waves on thin media such as glass windowpanes. The laser beam is reflected off the target window and received by a phototransistor. The beam, on hitting the target, is modulated by vibrations of the window caused by sound waves hitting the surface. The circuit then rebuilds the signal and outputs the sound that produced the signal. Thus, the circuit allows the user to monitor the audio characteristics of the target room.